

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

33. (Currently amended) A balloon catheter, comprising

a) a multilayer balloon comprising a polymeric first layer having a deposited plasma polymerized polymer film layer of acrylate and which includes fragmented acrylate formed from an acrylic acid plasma and which is covalently bonded to a first surface of the first layer along an entire length of the first layer, and a polymeric second layer, the second layer being bonded to the plasma polymerized film so that the plasma polymerized film is between the first and second layers, and the plasma polymerized film has a thickness which is about 10 to about 150 nanometers; and

b) an elongated shaft having an inflation lumen, and bonded to the balloon, so that an interior of the balloon is in fluid communication with the inflation lumen.

34. (Previously Presented) The balloon catheter of claim 33 wherein the first layer is an outer layer of the balloon and the second layer is an inner layer of the balloon, so that the first surface of the first layer which has the plasma polymerized film covalently bonded thereto is an inner surface of the first layer.

35. (Previously presented) The balloon catheter of claim 33 wherein a fusion bond bonds the first and second layers together.

36. (Previously presented) The balloon catheter of claim 33 including a layer of an adhesive between the plasma polymerized film and the second layer, so that the

adhesive bonds the second layer to the plasma polymerized film on the first surface of the first layer.

37. (cancelled)

38. (Previously Presented) The balloon catheter of claim 34 wherein the balloon has proximal and distal skirt sections bonded to the shaft, and the inner surface of the first layer along at least a portion of the proximal and distal skirt sections of the balloon has the plasma polymerized film bonded thereto and bonded to the shaft, so that the plasma polymerized film located along the portion of the proximal and distal skirt sections is between the first layer and the shaft.

39. (Previously presented) The balloon catheter of claim 33 wherein the first layer is formed at least in part of a polymeric material selected from the group consisting of a fluoropolymer, polytetrafluoroethylene, expanded polytetrafluoroethylene, and ultra high molecular weight polyethylene.

40. (Previously presented) The balloon catheter of claim 33 wherein the first layer is formed at least in part of a polymeric material having a node and fibril microstructure.

41. (Previously presented) The balloon catheter of claim 33 wherein the plasma polymerized film has a thickness of about 50 nm to about 125 nm.

42.-48. (cancelled)

49. (Previously presented) A balloon catheter, comprising
a) a multilayer balloon comprising a polymeric first layer having a deposited plasma polymerized polymer film which includes fragmented acrylate formed from an

acrylic acid plasma and which is covalently bonded to a first surface of the first layer, and a polymeric second layer, the second layer being bonded to the plasma polymerized film so that the plasma polymerized film is between the first and second layers, and the plasma polymerized film is an acrylate homopolymer and has a thickness which is about 10 to about 150 nanometers; and

b) an elongated shaft which has an inflation lumen, and which is bonded to the balloon, so that an interior of the balloon is in fluid communication with the inflation lumen.

50. (New) The balloon catheter of claim 33 wherein the plasma polymerized polymer film layer further includes crosslinked units, such that the plasma polymerized film is a crosslinked acrylate plasma polymerized film.